

 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0359 New Off-Road Compression-Ignition Engines
---	----------	---

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2010	ADZXL03.6085	3.619	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Turbocharger, Exhaust Gas Recirculation			Loaders, Tractor, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

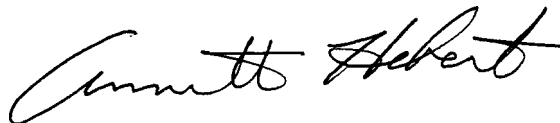
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Interim Tier 4	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT	--	--	4.6	1.2	0.24	1	2	2

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 27 day of January 2010.



Annette Hebert, Chief
Mobile Source Operations Division

Deutz AG
Nonroad CI

Engine Model Summary Template
Attachment page 1 of 1

E0# 0-R-013-0359
1/5/2010

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ADZXL03.6085	C3UI55,1	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55H	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55J	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55L	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55P	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55R	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55S	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55T	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI55Q	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54H	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54J	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54L	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54P	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54R	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54S	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54T	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI54Q	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
ADZXL03.6085	C3UI52	TD2011L04w	69.7	63	27.9	270@1600	65	23.1	DDI, TC, EGR